1 08760-67 $MP(\pi)/MP(t)/EPT$ ACC NEL A1G020127 IJP(c) JD/IN SOURCE CODE: UR/0048/GG/030/00G/1035/1037 MUTICR: Kironskiy, L.V.; Sukhanova, R.V.; Kan, S.V.; Pyn*ko, V.G.; Sivkov, N. I. ONG: Institute of Physics, Siberian Section, Academy of Sciences, SSSR (Institut fiziki Sibirskogo otdoleniya Akademii nauk SSSR); Krasnoyarsk Pedagogic Instituto TIME: Fino magnetic structure of the domains in iron-nickel films /Report, All-Union Conference on the Physics of Ferro- and Antiforromagnetism held 2-7 July 1965 in SOUNCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 1035-1037 TOPIC TAGS: permalloy, magnetic thin film, magnetic structure, magnetic domain struc-ABSTRACT: The authors have employed an electron microscope to investigate the fine magnetic structure of the domains (magnetization ripples) in films of nickel-iron alloy vacuum deposited at 10-4 mm Hg onto rock salt substrates. A series of films containing 80% Ni (in the initial mix) were deposited on substrates maintained during doposition at different temperatures between 50 and 200° C, and a second series of films containing from 40 to 90% Ni were deposited on substrates maintained at 100° C. Fine magnetic structure and magnetization ripples were observed in both series of films. In the SO% Ni film deposited at 160° the crystallite size was 590 Å, the wavelength of Card 2/2 bc

(Indianne) i dun 1919 (Brinnig Brinnig Brinnig Brinnig Brinnig Brinnig Brinnig Britski 1975) (1975 1975) (1975 1976) 11/11/11/11 EMP(s)/EMP(t)/ETI IJP(c) ACC NR. APGORDIZE JD/IN SOURCE CODE: UN/0048/66/030/006/1038/1041 Winda: Kironskiy, L.V.; Sukhanova, R.V.; Kan, S.V.; Pyn'ko, V.G.; Komalov, A.S. 43 O.E. Institute of Physics, Siberian Section, Academy of Sciences, SSSR (Institut Cimiki Sibirakogo otdeleniya Akadomii nauk SSSR); Krasnoyarsk Podagogic Institute

TITLE: Fine magnetic structure of the domains in iron, nickel, and cobalt films And Antiferromagnetism hold

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 6, 1966, 1038-1041

TOPIC TMGS: magnetic thin film, iron, cobalt, nickel, magnetic structure, magnetic dozain structure, magnetic coercive force , meral Film

ABSTRACT: The authors have investigated the fine magnetic structure of the domains (magnetization ripples) of iron, nickel, and cobalt films vacuum deposited at 10-4 mm Hg onto rock salt substrates maintained during deposition at temporatures between 50 and 250° C. Films were obtained whose crystallites had average linear dimensions ranging from 110 to 1200 Å, and the transition from polycrystalline to single-crystal structure was observed. Unlike the single-crystal films, the polycrystalline films always exhibited fine magnetic structure of the domains. Linear relations were found

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OUTHOR: Kirenskiy, L. V.; L. F.; Edel man, I. S.; Ko	ueron' ve or! vau	0. V., 0310141	ALL ALL STORES	-
ORG: Institute of Physics gogical Institute (Krasnoy	arskiy pedinstitu	6/		
PITIE: Epitaxial films of on Physics of Ferro- and A	ntiferromagnetism	* DAGLGTOARY, >-	1 0000	Conference
SOURCE: Fizika metallov i	metallovedeniye,	v. 22, no. 3, 1	966, 380-391	e43m
TOPIC TAGS: magnetic anis	otropy, epitaxial	growing, hyster	esis loop, metal	1110
ABSTRACT: The authors stuthermally vaporized onto in when the substrates are here with a favorable effect or led by proper selection of measured and the effect whom the magnetic anisotropy and its dynamics are analyshape of hysteresis loops ness. It is shown that the field of anisotropy and inetization. Orig. art. here CODE: 11, 20/ SUBM	onic crystals splitated in a vacuum epitaxy. The photostrate ich application of the films is yield and the result in coercive force approximately it as: 13 figures.	of 10 mm Hg, the composition of 10 mm Hg, the composition of a magnetic fit studied. The delts are used as cord is measured of the films is eversely proport table, 5 formula	the surface state of the film may be insotropy of the film structure of a basis for explain films of various always much lessional to the saturlas.	is changed be control- films are sation has f the films ining the ous thick- than the
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MELIKHAR, F. [Melichar, F.]; TUY, D.; KAN, V.

Diagnostic significance of the determination of transaminase activity in the blood serum of patients with epidemic hepatitis. Sov. med. 28 no.4:72-75 Ap 164.

1. 2-ya terapevticheskaya klinika, Brno, i Bol'nitsa im. V'yetnamo-chekhoslovatskoy druzhby, Demokraticheskaya Respublika V'yetnam, Gayfong.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

VAYNER, Yakov Vul'fovich; DASOYAN, Martin Avetisovich; YAMPOL'SKIY, A.M., inzh., retsenzent; KAN. V.I., inzh., retsenzent; AGUF, I.A., inzh., red.; VARKOVETSKAYA, A.I., red. izd-va; CHFAS, M.A., red. izd-va; PETERSON, M.M., tekhn. red.

[Equipment, automation and mechanization in electrochemical coating shops] Oborudovanie, avtomatizatsiia i mekhanizatsiia tsekhov elektrokhimicheskikh pokrytii. Moskva, Mashgiz, 1961. 404 p. (MIRA 14:10)

(Electroplating)

VAYNER, Ya.V.; DASOYAN, M.A.; YAMPOL'SKIY, A.M., kand. tekan.nauk, retsenzent; KAN, V.I., inzh., retsenzent; IYZLOV, Yu.V., kand. khim. nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; PETERSON, M.M., tekhn. red.

[Technology of electrochemical coatings]Tekhnologiis elektrokhimicheskikh pokrytii. Moskva, Mashgiz, 1962. 468 p. (MIRA 15:12)

(Electroplating)

KAN, V. I..

PA 64T50

USSR/Klectronics Condensers Mathematics, Applied

Apr 1948

"Accurate Solution of the Langmuir Problem for a Spherical Condenser," V. L. Kan, Leningrad Polytech Instimeni M. I. Kalinin, 12 pp

"Zhur Tekh Fiz" Vol XVIII, No 4 - pp 483-94

Comments on solution to Languair's problem on the distribution of potential in spherical condenser where the current is limited by large discharge. Accurate solution, using Bessel's function, for boundary cases and description of the operations for derivation of formulas. Shows possibilities for generalizations. Submitted 6 Nov 1947.

KAN V.L

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6

Behavior of the electron spin in scattering. V. Kan. Diskidy Akad. Nanh S.S.S.R. 50, 139-42(1994).—The elifertent cross-sections for acattering of an electron with fives spin by a point charge, and by a scatterer with charge and magnetic moment are developed with Born's approximation. Terms contg. products of the charge and magnetic moment components in the 2nd case appear noteworthy.

KEL'ZON, Anatoliy Saulovich; KAN, V.L., nauchnyy red.; POLYAKOV, I.I., red.; ERASTOVA, N.V., tekim.red.

[Dynamic tasks of cybernetics] Dinamicheskie zadachi kibernetiki. Leningrad, Gos.soiusnos izd-vo sudostroit.promyshl., 1959. 294 p. (MIRA 12:8)

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BEDDSKIY, A.D.: MAN, V.L.

Increasing the sensitivity of Rayleigh disks. Izm.tekh. 20 no.1:
56-57 Jn '59.

(Sound-Measurement)

BRODSKIY, A.D.; KAN, Y.L.; PYATIGORSKIY, L.M., nauchnyy red.; KUZNHTSOVA, H.I., red. 1zd-va; KASHIRIN, A.G., tekhn. red.

[Brief manual on mathematical processing of measurement results] Kratkii spravochnik po matematichaskoi obrabotke resultatov ismerenii. Moskva, Gos. izd-vo standartov, 1960. 167 p. (MIRA 14:5)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii im. D.I.Mendeleyeva (for Brodskiy, Kan) (Probabilities)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

		67883	
3,3000		s/020/60/130/06/012/059	
13(1) AUTHORS:	Kan, V. L., Kel'zon, A. S.	B013/B007	
TITLE:	The Stable and Unstable Traject		
PERIODICAL:	(USSR)	60, Vol 130, Nr 6, pp 1220 - 1223	
ABSTRACT:	The authors investigate the prarbitrary integral values of the differential equations of the symmetric object in the horizon $\mathbf{I}_{\mathbf{z}}\ddot{\phi} = -\mathbf{k}_{1}(\mathbf{v})\beta - \mathbf{k}_{2}(\mathbf{v})\dot{\phi} + \mathbf{k}_{3}(\mathbf{v})$ $\mathbf{k}_{3}\ddot{\phi} = -\mathbf{k}_{1}(\mathbf{v})\beta - \mathbf{k}_{2}(\mathbf{v})\dot{\phi} + \mathbf{k}_{3}(\mathbf{v})\dot{\phi}$ $\mathbf{k}_{3}\ddot{\phi} = \mathbf{k}_{1}(\mathbf{v})\beta - \mathbf{k}_{2}(\mathbf{v})\dot{\phi} + \mathbf{k}_{3}(\mathbf{v})\dot{\phi}$	ideal motion of an axially ontal plane read: $mv\psi = (T+c_Lv^2)\alpha$; ontal plane read: $mv\psi = (T+c_Lv^2)\alpha$; α ; $\varphi = \eta - 90^\circ + \alpha - \gamma$; $\psi + \gamma = \eta$; α ; α = $v \sin \gamma - v_g \sin \eta$. From quations one obtains a closed al values of the navigation conpresented in the form $(x) = v_g F(\eta)$;	
Card 1/3			

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The Stable and Unstable Trajectories of Proportional S/020/60/130/06/012/059 Navigation B013/B007

where p = v/v_s ; ε_o = $(b\eta_o - \psi_o)/(b-1)$ hold. The subscript o denotes the initial values of the variables. By integration of the latter system of equations for b = 4 one obtains the trajectory equation

$$\frac{\mathbf{a}}{\mathbf{a}_{o}} \left[\frac{\mathbf{p} \sin 3(\eta - \xi_{o}) + \sin \eta}{\mathbf{p} \sin 3(\eta_{o} - \xi_{o}) + \sin \eta_{o}} \right]^{1/3} \underbrace{\prod_{i=1}^{3} \left| \frac{\mathbf{t}g(\eta - \xi_{o}) - \mathbf{t}g(\eta_{i} - \xi_{o})}{\mathbf{t}g(\eta_{o} - \xi_{o}) - \mathbf{t}g(\eta_{i} - \xi_{o})} \right|^{-\frac{4}{3} \mathbf{a}_{o}} \underbrace{\frac{\sin \varepsilon_{o}}{\mathbf{p} - \cos \varepsilon_{o}}}_{\mathbf{b}}$$

where B_i, in turn, is again a rather complex function. This trajectory equation may be simplified for special values of \mathcal{E}_0 . The exact solution for various integral values of the navigation constant may be divided into two cases: odd b and even b. A formula is written down also for the curvature of the trajectory. The authors then investigate the behavior of the object near the target for the case in which the object moves more rapidly than the target. In such a case the stable and unstable roots alternate. To the stable and unstable roots there correspond an approach and a withdrawal from the target,

Card 2/3

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The Stable and Unstable Trajectories of Proportional S/020/60/130/06/012/059
Navigation B013/B007

respectively. The authors then deal with the motion of the object near the stable roots. In the corresponding expansions into series only the first terms are in each case retained. With $b \gg 2n$ an interception (perekhvat) is possible with an arbitrary ratio of the velocities p, arbitrary initial conditions, and from an arbitrary direction. With b < 2n, the limit of stability may be determined for the corresponding variables. In a similar manner also a real motion may be investigated, and it is further possible to select the amplification coefficients in the system of automatic control of the motion. There are 4 figures and 4 references, 2 of which are Soviet.

ASSOCIATION:

Leningradskoye vyasheye inzhenernoye morskoye uchilishche im. admirala Makarova (Leningrad Higher School of Naval Engineers

imeni Admiral Makarov)

PRESENTED:

July 9, 1959, by V. I. Smirnov, Academician

SUBMITTED: July 7, 1959

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

34763 s/140/62/000/001/004/011 C111/C444 3,2000

Kan, V. L., Kel'zon, A. S.

On strict solutions of the equations of proportional AUTHORS 1 TITLE:

Izvestiya vysshikh uchebnykh zavedeniy. Matematika, PERIODICAL: no. 1, 1962, 50-56

TEXT: The differential equations of proportional navigation were integrated by Spitz (Ref. 1: Partial navigation courses for a guided missile attacking a constant velocity target. Naval Research Laboratory, USA 1946) for the navigation constant b = 2.

The authors write these equations in the form

authors write these equations are
$$v_s = v_s =$$

$$\frac{1}{6} = v_s \left[\cos \eta - p \cos (b-1)(\eta - \xi_0) \right] = v_s f(\eta) \quad (1.7)$$

$$a\dot{\eta} = v_s \left[\sin \eta + p \sin (b-1)(\eta - \xi) \right] = -v_s f(\eta) \quad (1.7)$$

and integrate them for arbitrary integers b. Here a is the distance of the target A from the object B, η is the inclination angle of \overrightarrow{BA} ; ψ is the inclination angle of the velocity v of B, where |v| = const;

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S/140/62/000/001/004/011
On strict solutions of the equations ... C111/C444 $\chi = \chi - \psi$; v_s is the velocity of A, constant with respect to the $\delta = 1/-\gamma$; v_S is the volume of the angle η with \overline{BA}); $p = \frac{v}{v_S}$ amount and to the direction (it forms the angle η Eo is defined by (1.5)

ε o(b-1) = bη o - 40

where η_0 , ψ_0 are the initial values of the variables. One investigates the case p > 1. First of all it is stated that the equation (1.8)

 $f(\eta) = \sin \eta + p \sin (b-1)(\eta - \epsilon_0) = 0$

has exactly 2(b-1) zeros on $0 \le \eta \le 2$ Thoints. A zero is called stable has exactly z(n-1) zeros on $0=\sqrt{2}$ zero is called strict in reighbored η converge to it with increasing time. It is proved that to stable zeros there corresponds an approximation (a<0) and to the instabil ones there corresponds a divergence (a > 0).

The integration of the system is done by the following scheme. (1.6) is divided by (1.7), after integration of the quotients one obtains

Card. 2/6

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S/140/62/000/001/004/011 On strict solutions of the equations ... C111/C444

$$\ln \frac{a}{a_0} = \frac{1}{b-1} \ln \frac{p \sin(b-1) (\eta - \epsilon_0) + \sin \eta}{p \sin(b-1) (\eta_0 - \epsilon_0) + \sin \eta_0} - \frac{b}{b-1} \int_{\tau_0}^{\eta} \frac{\cos \eta \cdot d\eta}{p \sin(b-1) (\eta - \epsilon_0) + \sin \eta}.$$
(2.2)

The remaining integral is integrated for b = 3 with the substitution

 $tg \frac{\eta - \xi_0}{2} = z$, $tg \frac{\eta_0 - \xi_0}{2} = z_0$

and for b = 4 with the substitution $z = tg(\eta - \xi_0), z_0 = tg(\eta_0 - \xi_0).$ (2.18)

ith the substitute
$$z = tg(\eta_0 - \xi_0)$$
. (2.10)

For b = 3 one obtains

Card. 3/6

CIA-RDP86-00513R000620320011-6" APPROVED FOR RELEASE: 08/10/2001

 $$\rm S/140/62/000/001/004/011$ On strict solutions of the equations ... C111/C444

rict solutions of the equations
$$\frac{a}{a_0} = \left[\frac{p \sin 2 (\eta - \epsilon_0) + \sin \eta}{p \sin 2 (\gamma_0 - \epsilon_0) + \sin \gamma_0} \right]^{1/2} \prod_{i=1}^{4} \frac{\lg \frac{\eta - \epsilon_0}{2} - \lg \frac{\eta_i - \epsilon_0}{2}}{\lg \frac{\gamma_0 - \epsilon_0}{2} - \lg \frac{\eta_i - \epsilon_0}{2}} \right]^{-2B_i \operatorname{clg} \epsilon_0}. (2.11)$$

where:

$$\cos \eta_{i} \cdot \sec^{2} \frac{\eta_{i} - \xi_{0}}{2}, \qquad (2.12)$$

$$B_{i} = \frac{2[2p \cos 2(\eta_{i} - \xi_{0}) + \cos \eta_{i}]}{2[2p \cos 2(\eta_{i} - \xi_{0}) + \cos \eta_{i}]}$$

For arbitrary odd b = 2m+1 one uses again (2.4) as well as the repre-

sentation

sir.
$$2m(\eta - \epsilon_0)$$
 · sec $4m \frac{\eta - \epsilon_0}{2} = Q_{4m-1} \left(tg \frac{\eta - \epsilon_0}{5} \right)$ (2.27)

sir. $2m(\eta - \epsilon_0)$ · sec $4m \frac{\eta - \epsilon_0}{2} = Q_{4m-1}$ (degree. Then the integral

where Q_{4m-1} is a polynomial of (4m-1)-th degree. Then the integral attains the form

Card 4/6

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$$S/140/62/000/001/004/011$$
On strict solutions of the equations ... C111/C444
$$I = \int_{z_0}^{z} \frac{2[\cos \xi_0 (1-z^2) - \sin \xi_0 2z] (1+z^2)^{2m-2}}{pQ_{\ell,m-1}(z) + (1-z^2)(1+z^2)^{2m-1} \sin \xi_0 + 2z(1+z^2)^{2m-1} \cos \xi_0} dz (2.29)$$

and is integrated by aid of decomposition into partial fractions (as in the case of b = 3). If b = 2m + 2, then (2.18) and

$$\frac{\sin n \varphi}{\cos^n \varphi} = Q_n(tg \varphi) \qquad (2.31)$$

At the end it is stated that the curve is always convex with respect to the straight line which connects object and target.

There are 2 Soviet-bloc and 2 non-Soviet-bloc references. The two references to English language publications read as follows:

Card 5/6

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

S/140/62/000/001/004/011
On strict solutions of the equations ... C111/C444 H. Spitz: Fartial navigation courses for a guided missile attacking a constant velocity target. Naval Research Laboratory, USA, 1946;
A. Locke: Guidance, New York, 1955.

SUBMITTED: May 4, 1959

card 6/6

CIA-RDP86-00513R000620320011-6" APPROVED FOR RELEASE: 08/10/2001

FRAZHNICHENKO, Nikolay Arsen'yevich; KAN, Veniamin Lipmanovich;
MINTSHERG, Beniamin L'vovich; MOROZOV, Valentin Ivanovich;
BUTENIN, N.V., doktor tekhn. nauk, prof., retsenzent;
NIKITIN, N.N., kand. fiz.-mat. nauk, retsenzent; ZAKHAREVICH,
A.F., nauchnyy red.; SMIRNOV, Yu.I., red.; TSAL, R.K., tekhn.
red.

[Problems on theoretical mechanics]Sbornik zadach po teoreticheskoi mekhanike. Leningrad, Sudpromgiz, 1962. 559 p. (MIRA 16:1) (Mechanics, Analytic--Problems, exercises, etc.)

Kan V. L.

Evaluating errors of compound instruments (sets). Trudy inst. Kom. stand. mer i izm. prib. no.5717-9 62.

(MIRA 15:10)

机阻冲地震阻抗 网络祖籍统理 球组 (利德省纳州城阳州 4周阳州州州城市城市) 中国祖籍制度 "刘俊,不是这样之外,我们是一个人,我们是一个人,我们是一个人,我们是一个人

1. Vsesoyusnyy nauchno-issledovatel skiy institut metrologii im. D. I. Mendeleyeva.

(Measuring instruments)

KAN, V.L.; KEL'ZON, A.S. (Leningrad)

"Some new problems of proportional navigation"

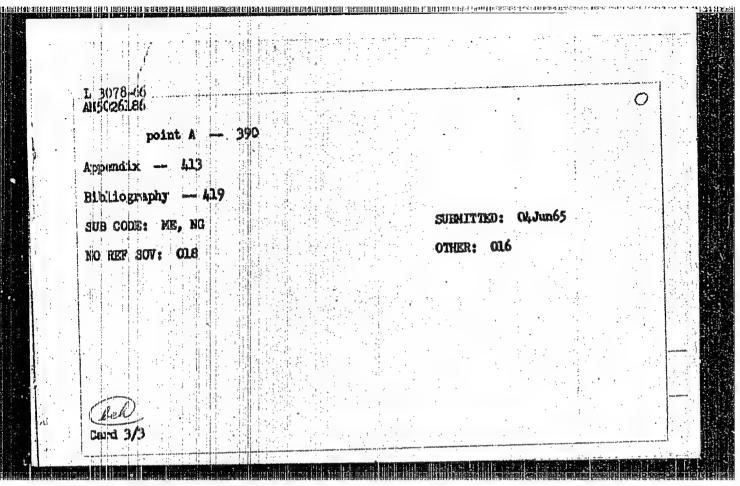
report presented at the 2nd All-Union Congres on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

L 3078-66 INTE(d) / SWP(x) / SWP(k) / EMP(h) / EWP(1) BOOK EXPLOITATION A11502026186 Kan, Ventamin Ligmanovich: Kel'son. Anatoliy Saulovich Theory of proportional navigation (Teoriya proportsional noy navigatsii) Leningrad, Igd-vo "Sudostroyemiye", 1965. 423 p. illus., biblio. 1,800 copies printed. TOPIC TAGS: automatic control theory, havigation system, proportional navigation, trajectory determination, aerospace structure, motion mechanics, motion stability, solid kinematics FURPOSE AND COVERAGE: This book is a study of the symmetrical motion of the relatively linear axis of a solid body converging with a moving point by means of proportional convergence. The book presents the theory of proportional navigation in its present state based on data of Soviet and foreign science as well as on studies made by the authors. Problems of kinematics, dynamics, stability of motion and of automatic control by proportional convergence are viewed. The book is recommended for engineers and scientists specializing in the field of sutematic control of motion. Also it would be useful for students in shipbuilding and aviation institutes as well as for students in mechanicalmathematical and physical-mechanical departments of corresponding universities. Card 1/3

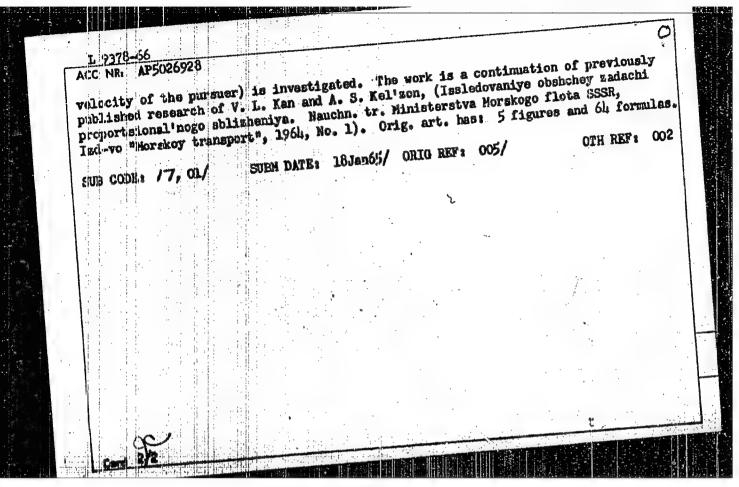
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EHT(d)/FBD/FSS-2/EHT(1)/FS(v)-3/EEC(k)-2/EHA(d)/T-2ACC NR. AP5026928 CW/EC/WE SOURCE CODE: UN/0373/65/000/005/0017/0055 AUTRORS: Kan. V. L. ORG: none TITLE: Solution of a pursuit problem SOURCE: AN SSSR. Izvestiya. Hekhanika, no. 5, 1965, 47-55 ship navigation, tracking system, spacecraft tracking, differentia equation ABSTRACT: It is desired to determine analytical expressions describing trajectories which a moving object (e.g., a ship) can follow in order to intercept another object moving with given uniform valocity. Using the method of proportional navigation (H. Spits. Partial navigation courses for a guided missile attacking a constant velocity target. Naval Research Laboratory, USA, 1916), the problem is solved for general values of the navigational constant b (i.e., b # 2). Solutions of the differential equations of motion are discussed with regard to questions of stability and whether or not interception is achieved for a given set of initial parameters. Exact solutions are obtained in a number of examples, and the effect of the velocity ratio p (p = v/r° , where v° is the velocity of the uniformly moving object, and v the Card 1/2



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

	SOURCE CODE: UR/0141/65/008/006/1229/1243
AUTHOR: Kan, V. I.; Kel'zor	1. A. S.
DRG: none	a wife
IIILE: Qualitative investigation	on of the trajectory in proportional navigation
SOURCE: IVUZ. Radiofizika,	v. 8, no. 6, 1965, 1229-1243
TOPIC TAGS: navigation, prop	portional navigation
ABSTRACT: Suggested by H. S Res. Lab. USA Report, 1946) i	pitz, the method of proportional navigation (Naval nvolves this set of equations for straight-line motion
of point A: $\dot{\psi} = b \dot{\eta}$,	of the line of sight, ψ is the angle of B velocity
$\dot{a} = v_s \cos \eta - v \cos \gamma,$ $a\dot{\eta} = v \sin \gamma - v_s \sin \eta.$	vector, v is the lead angle, and b is the navigational constant; v and v are the velocities of points
hat both velocities are constan	oblem is to find the relative trajectory of B assuming it. The closed solution of the above set of equations of f(n); however, such roots essentially depend on
can be represented by the roots	

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

KAS, V. L.

Cand T ch Sci

Dissertation: "Technology of Spinning Synthetic Staple Fiber on Silk-Spinning Equipment."

30/1.1/50

Moscow Textile Inst.

Sum 71

KAN, V. M.

Silk Manufacture

Method for selecting samples of silk noils. Tekst. prom. 12 No. 9, 1952.

Monthly List of Russiah Accessions, Library of Congress, December 1952. Unclassified.

MANUTEM M., kandidat tekhnicheskikh nauk.

Redesign of the drawerhead on a roving machine for silk. Tekst. (MLHA 9:10) prom. 16 no.8:48-50 Ag 156.

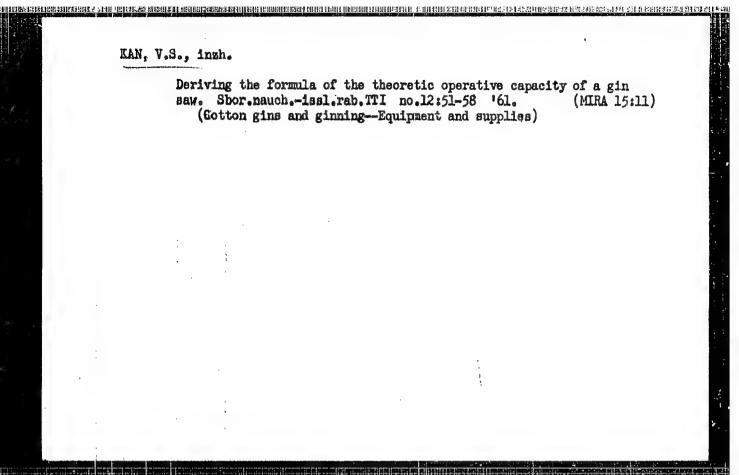
(Silk manufacture) (Spinning machinery)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

KAN, Y.M., kand. tekh. nauk.

Using the ONN-TSNIKhBI device to test sliver evenness. Tekst. prom.
18 no.11:36 N '58. (MIRA 11:12)

(Carding) (Testing machines)



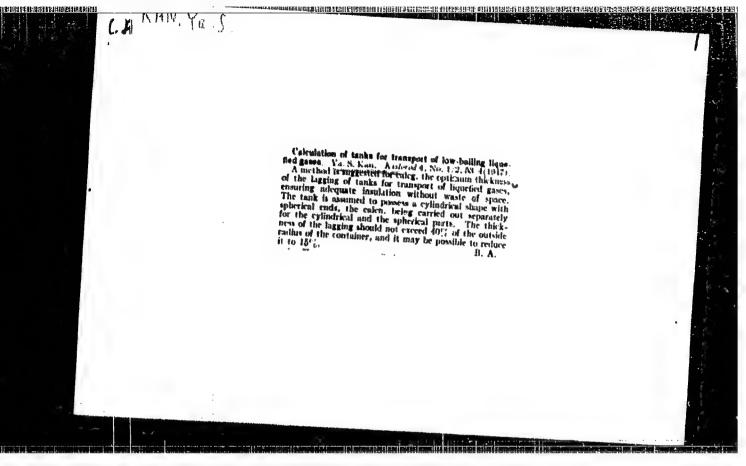
STUDDIASSONALIUM STANSONANUS MESAN ANDESIS	es envols reschoulemes della sen remonitensalem senda demantrimensamme, mitalite den della lessentes est estatores de despetator estatores.	
KA	N _g Velone	Tr. mark
	Problems of builders in the development of a technical and material basis for farming. Promestrai. 42 nc.7:2-4 465. (MIRA 18:8)	
	1. Chlan kollegii Gosstroya SSSR.	
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EMSSER, Ya.R., inchener; KAN, V.Ya., inchener.

Evaluation of the various methods of concreting down-apron blocks.

Gidr.stroi. 23 no.8:4-9 154.

(Hydroelectric power stations) (Reinforced concrete construction)



CARPINA AM. KANI, Ya. S.

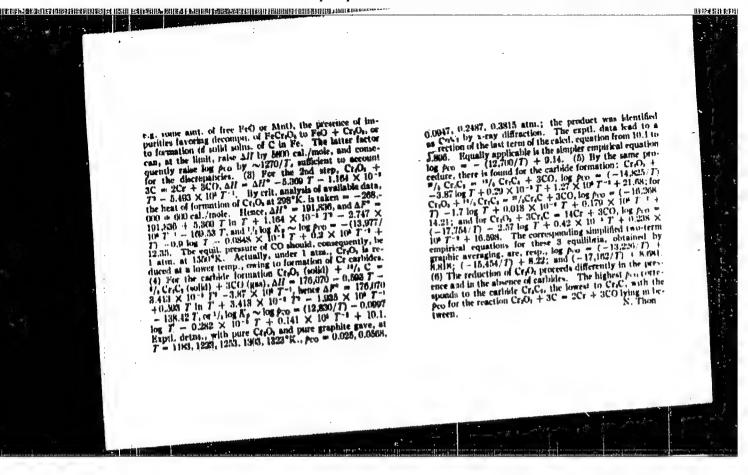
finite particularities of the transities and the supermedualing of the L. A. A. Galkin, Ye. B. Rang, and B. C. Louarry (Phys.-Tech. Inst., Akad. Sci., Var. E.B.R., Kley). Zhur. Ekipel, Trovel. Pic. 20, 865-76(1930); cf. C.A. 49, 457g.—Co. einstinances levering of the tetap, at the uniformate of O.(1936 "min. in the virinity of 13.7" K., a 0.03-mm.-diam., nearly-single-crystal wire of pure Sc., annealed at 100", showed fluctuations of the elect resistance, with, first, sharp variations by 20-30% and returns to the normal value, and later a fall by 00-70% which, on very slow cooling, is resolved into a series of fluctuations. The resistance then goes back to normal for a last time, and from them on the amplitude of the fluctuations decreases propressively. There, or a few slarp pasks at 0.002° below the buginaling of the fluctuations. A similar picture is obtained on heating. With a magnetic field applied parallel to the axis of the wire, the curve is step-shapped, with level portions instead of peaks. Only at a sufficiently high magnetic field strength is there a sharp fall from the normal into the superconducting state, occurring within a temp. interval at introve as 0.000003°. In a magnetic field perpendicular to the axis of the wire, the pasks and the steps disappear, and the whole curve becomes saw-shaped. Similar curves are found, without magnetic field, with wires strained by drawing, and with an unamental wire of Ta. The observed discontinuities of the temp, there is statistical Suctuations of the temp, these threads evidently congulate, giving riss to a particular internal relation scate. The step-shaped curve is a longitudical magnetic field, the saw-shaped form of the

curves, in the absence of a magnetic field, the rule of growth curves, in the absence of a magnetic field, the rule of growth of the nuclei of the superconducting phase can be end, to a few mon, forc. II. A. A. Gaikin, B. G. Lazarev, and P. A. Bennglyf (Phys. Tech. Inst., Acad. Sci. Ukr. S. R., Kiev). Ibid. 867-04; cf. C.A. 43, 4070s. The velocity v of the displacement of the boundary between the increasal and the apperconducting states was detd. in 2 independent ways. One method consisted in oscillography of the voltage E at the verminain of the accordary co3 of a transformer with a superconducting core; the E induced in the coil depends both on the rate of change of the imagnetic field II and on v. If the perturbation of the superconducting state legins at the perturbation. The deba, were made on samples of Hg and $S = cross-section area of the sample; v is thus obtained from the peak of the veltage obtained in the process of the perturbation. The deba, were made on samples of Hg and so the peak of the veltage obtained in the process of the instant of the perturbation, E is several times as great as in the normal state; bence, <math>E(t)/E_0 = 1 + |v|/v/v = m/\Delta v = 0$. A $10^{-1} > 2 \times 10^{-1} > 2 \times 10^$

(aver)

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TREST Atomic and Molecular Physics - Low-Temperature Physics

D-5

Abs Jour

Ref Zhur - Fizika, No 1, 1958, 789

Author

Galkin, A.A., Kan, Ya.S., Lazarev, B.G.

Inst

: Physical-Technical Institute, Academy of Sciences, Ukrai-

nian, SSR.

Title

: Discontinuous Attenuation of Current in a Superconduc-

ting Ring.

Orig Pub

Zh. eksperim. i teor. fiziki, 1957, 32, No 6, 1582

Abstract

An investigation was made of the character of the appearance of resistance in a superconducting lead ring carrying induced current under gradual heating. A measuring coil with 800 turns of copper wire was placed inside a ring of radius 1 cm made of wire 1 mm in diameter. Rotation of the coil about an axis located in the plane of the ring made it possible to measure the total current

Card 1/2

24:7500

S/181/62/004/003/037/045 B108/B104

AUTHORS:

Kan, Ya. S., and Polyakov, L. M.

TITLE:

Method of determining the tangential stresses in a medium

under high pressure

PERIODICAL: Fizika tverdogo tela, v. 4, no. 3, 1962, 810-811

TEXT: A method of determining tangential stresses in a solid compressed by solids is described. It is based on determining these stresses for standard single crystals which at relatively low tangential stress show traces of residual deformation. From the stress - strain diagrams of the standards compressed under hydrostatic conditions one can then find the tangential stresses in any specific case by determining the difference between the hydrostatic traces and those obtained by compression between solids. By this method it is also possible to determine the solidification point of a liquid. There are 1 figure and 1 table. The Englishlanguage references are: J. T. Stevart. Phys. Rev., 27, 578, 1955; C. A. Swenson. Phys. Rev., 29, 423, 1955.

Card 1/2

Method of determining the tangential ... S/181/62/004/003/037/045

ASSOCIATION: Fisiko-tekhnicheskiy institut AN USSR, Khar'kov (Physico-technical Institute AS UkrSSR, Khar'kov)

SUBMITTED: November 30, 1961

KAN, YA. S.

AUTHORS: Grigor' way, V.N., Kan, Ya.S., Rudenko, N.S., 56-3-4/59

Safronov, B.G.

TITLE: Variation of Isotapic Composition of Evaporated Mercury.

(Izmeneniye izotopicheskogo sostava rtuti pri isparenii)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3,

pp. 576-580 (USSR)

ABSTRACT: The variation of the isotopic ratio of the isotopes Hg-198 to

Hg-204 was determined in the most different evaporation parameters (e.g.t from 70 to 270° C) by means of the mass spectrometers MC-2 and MC-4. It was determined that a low evaporation velocity

exercises a special influence on the evaporation kinetics.

The relative vapor pressure difference between the isotopes

Hg-198 and Hg-204 can be given from the results:

for $t = -20^{\circ}$ C $\Delta p/p \le 2.10^{-3}$ for $t = 200^{\circ} C$ $\triangle p/p \le 8.10^{-4}$

There are 4 figures, 3 tables, and 4 Slavic references.

ASSOCIATION: Physical-Technical Institute AN of the Marainian SSR St.

(Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR)

SUBMITTED:

March 13, 1957 AVAILABLE:

Library of Congress

Card 1/1

L 2092-66 EWT(d)/EWP(1) ACCESSION NR: AIP5023273 UR/0302/65/000/003/0033/0034 621.374.328:537.312.62 Candidate of physico-mathematical sciences); Rakhubovskiy, AUTHOR: TITLE: Multiple-winding cryotron - a general-purpose logic element Avtomatika i priborostroyeniye, no. 3, 1965, 33-34 TOPIC TAGS: cryogenic circuit, cryotron logic circuit, computer technology ABSTRACT: If an extra bias winding is added to a cryotron with multiple windings, the element may perform logical operations. Depending on the relative direction and the magnitude of the control and bias currents, the modified cryotron may perform OR, EXCLUSIVE ON, AND, NOR, and NAND operations. The last two are the most practicable. A 4-bit adder using 3-winding lead-tin cryotrons was constructed and tested at the Physicotechnical Institute, Academy of Sciences UkrSSR / Adder speed was increased by a factor of two over the normal. The cryotrons used had time constants of 250 used at an embient temperature of 3.6K. The bias and control currents were 250 mamp # 20%. Orig. art. has: 3 figures. ASSOCIATION: none Cord 1/1

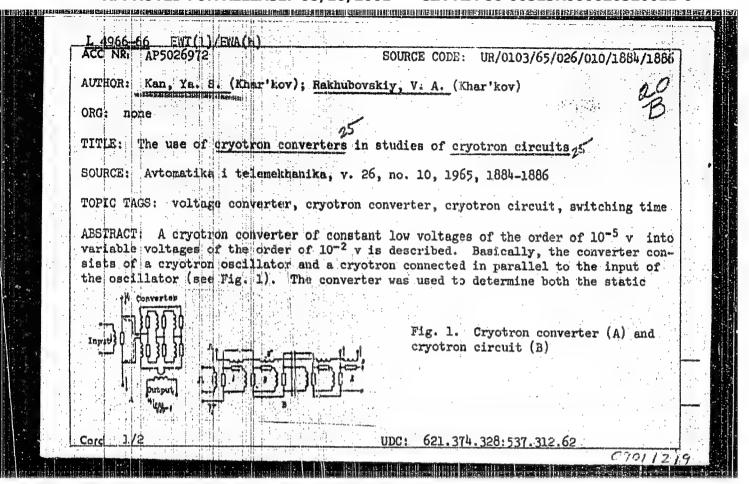
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ARTEMENKO, I.A.; KAN, Ya.S.; RABUKHIN, L.B.

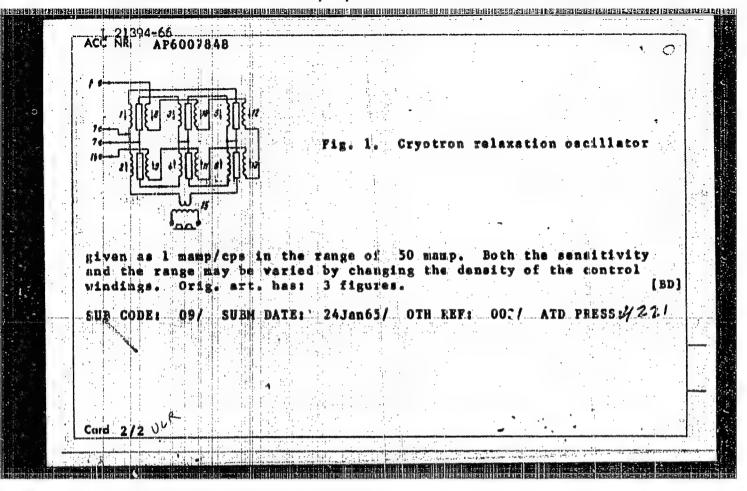
Static characteristics of cryotrons. Ukr. fiz. zhur/. 10 no.9:1035-1036 S '65. (MIRA 18:7)

1. Institut kibernetiki AN UkrSSR, Kiyev, i Fiziko-tekhnicheskiy institut AN UkrSSR, Khar'kov.

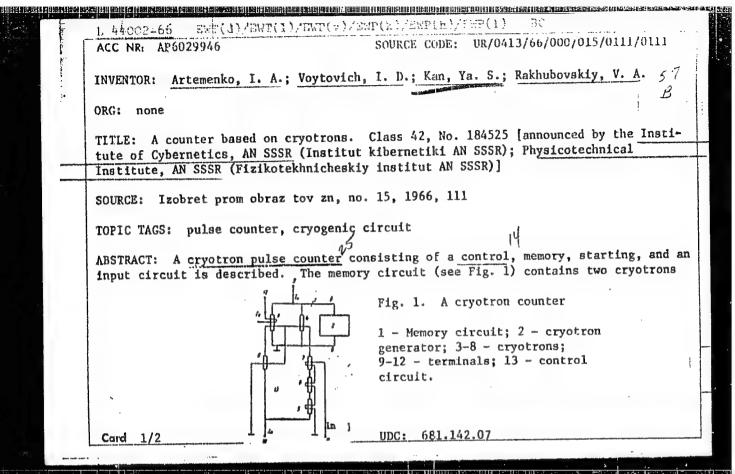


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	for	surip	ly curre	ents re	angin	g from 23	O to	130 mam	p deper	nded only	ans 10 A stign	tly on :	Thus, i	t
	was	exte	pie, ioi rimental	llv de	monst	rated the	nup, a	static	time (constant	τofe	lementa	ry .	
	61.7	otron	cells	for a	wide	range of	currer	its can	be use	ed to de	termine	the sw	itching .	
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ASSECTION STATES AND AND THE PROPERTY OF THE P UR/0120/66/000/001/0221/0222 ACC NR AP6007848 SOURCE CODE: AUTHOR: Kan, Ya. S.; Rakhubovskiy, V. A. Physicotechnical Institute, AN UkrSSR, Kharkov (Fiziko-tekhni cheskiy institut AN UkrSSR) Cryotron relaxation oscillator with frequency oscillator TITLE Pribory i tekhnika eksperimenta, no. 1, 1966, 221-222 SOURCE TOPIC TAGS: cryogenic circuit, ammeter, relaxation oscillator ABSTRACT: The relaxation oscillator shown in the figure is based on two-wi ding lead-tin cryotrons. The nominal output frequency of the oscil ator is established by the gate current (terminals 7) and may be varied by the application of the control current (terminal 14). Since the control current flows through superconducting wires, the oscillator may be used as an ammeter for superconducting circuits. The current to be measured will change the output frequency of the oscillator by an amount linearly related to the magnitude of the control (measured) current. The cryotrons used in the circuit have $R = 10^{-6}$ ohm and $L = 10^{-8}$ h. The sensitivity of the circuit is 537.312.62:621.373.43 Cord 1/2 UDC:



ENT(d)/ENT(1)/ENT(m)/ENP(v)/ENP(t)/ETI/ENP(k)/ENP(h)/ENP(1) ACC NR: AP6022044 SOURCE CODE: UR/0120/66/000/003/0228/0229 AUTHOR: Kan, Ya. S.; Rakhubovskiy, V. A; ORG: Physico-Technical Institute, AN UkrSSR. Khar'kov (Fiziko-tekhnicheskiy institut AN UKTSSR) TIFLE: Cryotron relaxation oscillator as a thermometer SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 228-229 TOPIC TAGS: thermometer, cryotron, relaxation oscillator ABSTRACT: A possibility is demonstrated of using the cryotron relaxation oscillator as a liquid-He thermometer. As the frequency of a cryotron relaxation oscillator (such as described by M. L. Cohen et al., Proc. IRE, 1960, 9, 1575) operated at a constant current depends on the ambient temperature, the oscillator can serve as a low-temperature thermometer. The sensitivity of such a thermometer proved to be about 0.0003K/cps in the neighborhood of 3.5K. A formula is developed for calculating the liquid-He temperature from the observed frequency of the relaxation oscillator. Orig. art. has: 2 figures, 1 formula, and 1 table. [03] SUB CODE: 20, 09 / SUBM DATE: 03Jun65 / ORIG REF: 000 / OTH REF: 001 Card 1/1/1/1/ UDC: 621.374.328:537.312.62:536.5



•	ACC NR: AP6029946	2
	connected in parallel to the superconducting circuit containing the cryotron generator control coil and to the current source from the starter circuit. The control circuit has two parallel arms, each containing a control coil for the memory circuit cryotrons. One of these branches also includes a cryotron whose control coil is connected between a current source and the control circuit. The other branch consists of a group of cryotrons with a common control coil which serves as the counter input terminal. This arrangement achieves economy and assures that the counter is able to operate as an accumulator. Orig. art. has: 1 figure.	
	SUB CODE: 09/ SUBM DATE: 25Mar64/ ATD PRESS: 5070	
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ACC NR. AP7004264 (A) SOURCE CODE: UR/0432/66/000/003/0019/0023

AUTHOR: Kan, Ya. S. (Candidate of physico-mathematical sciences); Mikhaylov, G. S. (Candidate of technical sciences); Rakhubovskiy, V. A.

ORG: none

TITLE: A model of a cryotron digital computer with programmed control

SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 3, 1966,

19-23

TOPIC TAGS: cryogenic computer, computer design

ABSTRACT: A small-scale model of a cryotron computer was built and tested at the Physico-technical Institute of the Academy of Sciences UkrSSR. The model contained only essential blocks such as the arithmetic unit, number memory unit, instruction memory with machine halt unit, control unit, and an I/O unit. The model could add, subtract, and multiply 4-bit (including sign bit) words in fixed-point notation. Instructions were of the three-address type, and the memory unit was random-access. The computer was built using 504 lead-tin wire cryotrons mounted on micarta cards. Three tests lasting 11, 17, and 21 hours were made during which every 3 hours the machine was stopped

Card 1/2

ACC NR: AP7006773

SOURCE CODE: UR/0102/66/000/006/0065/0069

AUTHOR: Voytovych, I. D. -- Voytovich, I. D. (Kiev-Khar'kov); Kan, Ya. S. (Kiev-Khar'kov); Rakhubovs'kyy, V. A. -- Rakhubovskiy, V. A. (Kiev-Khar'kov)

ORG: none

TITLE: Analysis of a cryotron memory circuit with many stable states

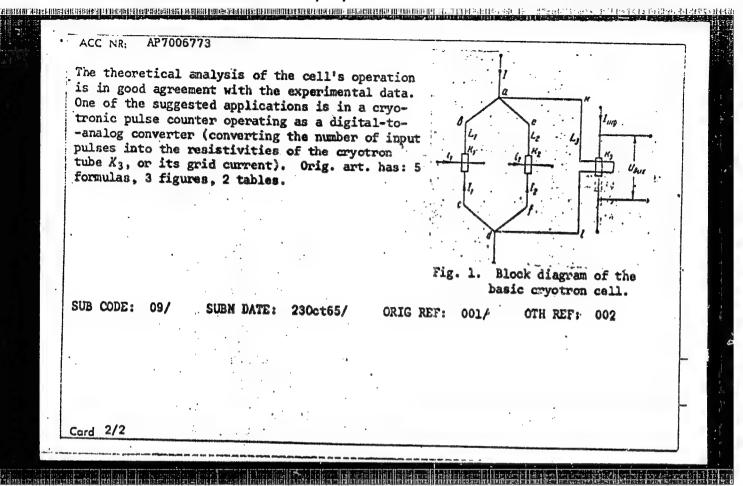
SOURCE: Avtomatyka, no. 6, 1966, 65-69

TOPIC TAGS: memory access technique, electromagnetic memory, digital system, digital analog converter, envotron circuit electronic circuit

ABSTRACT: A cryotron memory cell which determines the number of pulses fed to its input by the value of the current persisting in it, was designed (see Fig. 1). In Fig. 1, K_1 and K_2 are working cryotrons; K_3 is the indicating cryotron; L_1 and L_2 are inductances of arms abcd and aefd, respectively (it is set that $L_1 = L_2 = L$); L_3 is the inductance of arm akld; R_1 and R_2 are resistivities of cryotron tubes K_1 and K_2 in normal state (it is set that $R_1 = R_2 = R$). The transistory processes were analyzed, and the dependence of the number of states from the mesh current $I_0^{(0)}$, when $\beta = 0.81$, $i_{OT}^{(1)} = 150$ ma, and T = 3.6°K was calculated and tabulated; here,

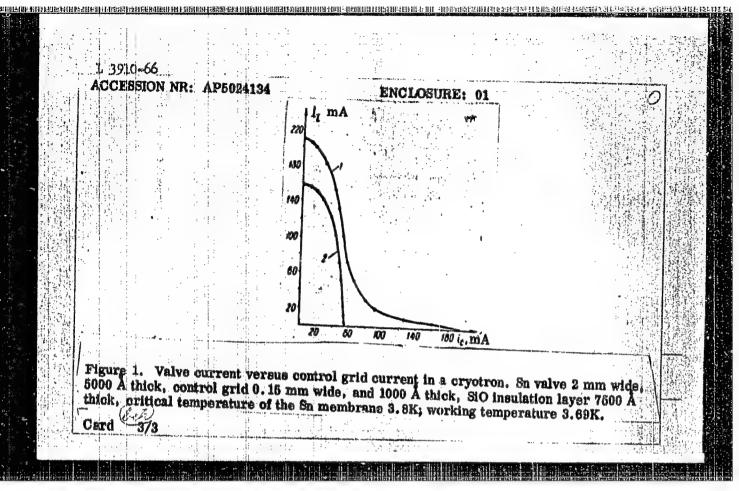
 $\beta = \frac{L_3}{L_2 + L}.$

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L 3910-66 ENT(1) ACCESSION NR: AP5024134 UR/0185/65/010/009/1035/1036 AUTHOR: Artemenko, I. A.; Kan, Ya. S.; Rabukhin, L. B. 4455	36
AUTHOR: Artemenko, I. A.; Kan, Ya. S.; Rabukam, L. B. 419	B
TITLE: Static characteristics of cryotrons 21,44,55	
SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 10, no. 9, 1965, 1035-1036	
TOPIC TAGS: cryotron, superconductivity	
ABSTRACT: This note presents the results of the experimental determination of characteristics of a thin unscreened cruciform cryotron shown in Fig. 1 of the Encurve 1 is obtained following the usual potentiometric method during a constant 1 voltage across the valve; curve 2 is obtained by the current method of small resistance measurements with a constant minimum resistance of $R_{\min} = (1.03\pm0.01)\cdot 10^{-9}$ of sults show that the small slope of the characteristics for small valve currents is by the particular method of measurement only. The second method for the determination of characteristics is the more accurate one. Orig. art. has: 1 figure.	0 ⁻⁶ V stance hm. Re- s caused mination
ASSOCIATION: Instytut kibernetyky AN URSR, Klev (Institute of Cybernetics, Al SSR); Fizyko-tekhnichnyy instytut AN URSR, Khar'kov (Physics-Engineering Inst Ukr. SSR) 4455	V Ukr. AN
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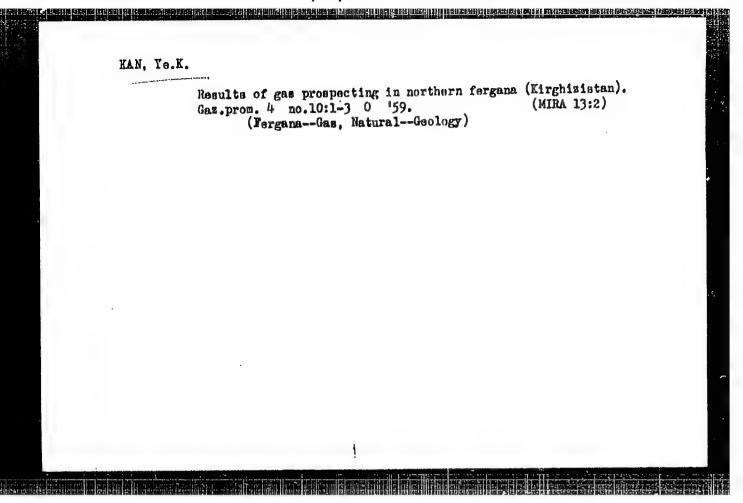
ALADATOV, G.M.: KAN, Yo.K.

New data on the goological structure, and oil and gas potentials of the northern part of the Fergana Valley. Geol.nefti i gaza 3 no.5:19-22 My '59. (MIRA 12:7)

1. Kraenodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta i Neftepromyslovoye upravleniye Kirgizneft'.

(Fergana-Petroleum goology)

(Fergana-Gas, Natural-Geology)



SOKOLOV, I.P., KAN, Yo.K., ROZANOV, N.M., SHOELEV, I.A.

Trends in further oil and gas prospecting in the Fergana Valley. Geol.nefti i gaza 3 no.12:13-16 D '59.

(MINA 13:4)

l. Ferganskiy neftyanoy kombinat Kirgisneft' i Vsesoyusnyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut (VNIGNI).

(Fergana-Petroleum geology) (Fergana-Oas, Natural-Ocology)

VASIL'YEV, Yu.M.; GIESHMAN, N.B.; KAN, Ye.K.; KOPTEL'TSEV, A.A.;
LI, K.A.; CHARYGIN, M.M.

Initial results of super-deep drilling in the Caspian Lowland.

Trudy MINKHiGP no.43:213-217 '63. (MIRA 17:4)

ZLIZINA, A.G.; KAN, Ye.K.

Outlook for finding oil and gas pools in sediments overlying salt deposits in the Volga-Ural interfluve. Gool. nefti i gaza 7 no.6: 8-14 Je '63. (MIRA 16:9)

1. Trest Ural'skneftegazrazvedka i Kazakhskiy politekhnicheskiy institut.

LI, M.A.; KAH, Ye.M.; CORRECTEVA, V.P.; Fillioffix, B.A.

For fata on the geological structure of the northern borderland of the Caspien Localed and prospects of its gas and oll content.

Casal. neith i gasa 9 no.1116-18 Ja 165.

(MIRA 18:3)

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KAN, Ye. L.

"Date Relating to the Study of the Influence of the Nervous System on the Composition of the Blood." Cand Med Sci, Inst of Fhysiology, Acad Sci USSR, Leningrad, 1953. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

KAN, Ye.L.

Development of experimental anemia as a result of denervation of the spleen. Biul.eksp.biol.i med. 37 no.3:29-33. Mr 154.

(NLRA 7:6)

1. Iz laboratorii fiziologii retseptorov (zav. chlen AMN SSSR V.N.Chernigovskiy) Insituta fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.

(AMBHIA, experimental, *eff. of spleen denervation) (SPLEEN, physiology, *eff. of denervation on exper. anemia)

KAN, Yo.L.

Effect of stimulation of gastric mechanicreceptors on erythrocyte and leukocyte composition of the blood, Biul.eksp.biol. i med. 38 no.8:12-18 Ag '54. (MIRA 7:9)

1. Iz laboratorii fiziologii retseptorov (zav. deystvitel'nyy chlen AMN SSSR V.N.Chernigovakiy) Instituta fiziologii imeni I.P.Pavlova (dir. akademik K.H.Bykov) AMN SSSR, Leningrad.

(STOMACH, physiology,

eff. of stimulation, mechanical, on erythrocyte & leukocyte counts.

(ERYTHROCYTES.

count, eff. of mechanical stimulation of stomach)

eff. of mechanical stimulation of stomach)

KAN, Ye. L.

USSR/Human and Animal Physiology (Normal and Pathological).

Blood. Blood Diseases.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74690

Author : Kan, Ye.L., Vavilin, G.I.

Inst: 1.3

Title: On the Mechanism of the Development of Experimental

Anemia Which Appears in Connection with Denervation of the

T-3

Spleen.

Orig Pub : Arkhiv patologii, 1957, 19, No 2, 61-68.

Abstract : In chronic tests on 18 cats, denervation (D) of the spleen

(8) was carried out. In all cases, expressed hypochromic normocyotic anemia developed, lasting 1½-7 months. In 14 cats, the most expressed anemia was noted on the 5-24th day. Anemia was caused by strong hemolysis, since after D the content of bilirubin in the serum and hemosiderin in the S, bone marrow (BM), liver and kidneys did not change.

In 50% of the cats anemia proceeded with peripheral

Card 1/3

- 42 -

USSR/Human and Animal Physiology (Normal and Pathological). Blood. Blood Diseases.

T-3

Abs Jour

: Ref Zhur - Biol., No 16, 1958, 74690

peripheral blood. The number of leukocytes after D increased by 32-299%, and in one case by 488% (58,700 per 1 mm3). In 21 tests on 5 cats with fistula of the stomach and denervated S, the walls of the stomach were stimulated by inflation with a rubber balloon. D was conducted in single animals resulting in the increase of the number of E, in others to the decrease, and in some to the decrease of the number of E following their temporary increase. Also insignificant fluctuations of the number of E were observed, resembling "spontaneous ones" in intact animals. D of S has little bearing on the reactiveness of white blood. --A.D. Beloborodova.

1. Iz gruppy deystvitel'nogo chlena AMN SSSR prof. M. D. Tushinskogo i iz laboratorii eksperimental'noy patologii (zav.-starshiy nauchnyy sotrudnik #1. G. S. Kan) Leninsradskogo instituta tuberkuleza (dir.-prof. A. D. Semenow, nauchnyy konsul'tant - chlen-korrespondent AN SSSR prof. V. N. Chernigovskiy)

Card 3/3

TUSHINSKIY, M.D., STAYSKAYA, V.V., YAROSHEVSKIY, A.Yn., DAVIDENKOVA, Ye.F., SEARLATO, Ye.S., KAU, Ye.L., SERAYABINA, Ye.A. (Leningrad)

Glinical aspects of the pandemia of influenza in 1957. Klin.med. 36 no.5:43-48 My '58 (MIRA 11:7)

(INFLUENZA, epidemiology

in Russia, pandemia (Rus))

KAN, Ye.L.

Hemopoietic properties of the serum of healthy and anemic animals. Biul.eksp. biol. i med. 49 no.2:55-61 F '60. (MIRA 14:5)

1. Iz gruppy deystvitel'skogo chlena AMN SSSR M.D.Tushinskogo i laboratorii eksperimental'noy patologii i terapii (zav. G.S.Kan) Leningradskogo instituta tuberkuleza (dir. - prof. A.D.Semenov. Predstavlena deystvitel'nym chlenom AMN SSSR M.D. Tushinskim. (ANEMIA) (HEMOPOIETIC SYSTEM)

TUSHINSKIY, M.D.; STAVSKAYA, V.V.; BOGORODSKAYA, T.A.; KAN, Ye.L.; LERMONTOV, V.V. (Leningrad)

Some clinical and diagnostic problems in influenza. Klin.med. no.12:54-60 161. (MIRA 15:9)

1. Iz kafedry propedevticheskoy terapii (zav. - prof. M.D. Tushinskiy) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

(INFLUENZA)

KAN, G.S., starshiy nauchnyy sotrudnik; KAN, Ye.L., starshiy nauchnyy sotrudnik; POLETAYEVA, K.A., mladshiy nauchnyy sotrudnik

Experimental tuberculosis of the spleen and its interrelation with the nervous system. K izuch.roli nerv.sist.v pat., immun.i lech. tub. no.2:46-62 '61. (MIRA 15:10)

1. Iz laboratorii eksperimental'noy patologii i terapii (zav. - G.S.Kan) Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. A.D.Semenov) i gruppy deystvitel'nogo chlena AMN SSSR prof. M.D.Tushinskogo.

(SPLEEN-TUBERCULOSIS) (NERVOUS SYSTEM)

KAN, Ye.L., starshiy nauchnyy sotrudnik

Effect of deafferentation of the extremity on the blood system and the development of a focus of specific inflammation in the skin of dogs. K izuch.roli nerv.sist.v pat., immun.i lech.tub. no.2:212-218 '61. (MIRA 15:10)

1. Iz gruppy deystvitel'nogo chlena AMN SSSR prof. M.D. Tushinskogo i laboratorii eksperimental'noy patologii i terapii (zav. - G.S.Kan) Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza. (SKIN-TUBERCULOSIS) (EXTREMITIES (ANATOMY)-INNERVATION) (HEMOPOIETIC SYSTEM)

KAN, Ye.L., starshiy nauchnyy sotrudnik; SHKOL'NIKOVA, M.D., starshiy nauchnyy sotrudnik

Study of the changes in the blood system during the formation of antibuberculosis immunity and following superinfection. K izuch. roli nerv.sist.v pat., immun.i lech.tub. no.2:271-280 '61.

(MIRA 15:10)

1. Iz laboratorii eksperimental'noy patologii i terapii (zav. - G.S.Kan) Leningradskogo nauchno-issledovatel skogo instituta tuberkuleza.

(IMMUNOHEMATOLOGY) (TUBERCULOSIS)

KAN, Ye.L.

Physiological mechanisms of immunity to tuberculosis. Report No. 1: The effect of antituberculosis vaccination of leucocytic reactions provoked by the parenteral administration of milk. Biul.eksp. biol.i med. 54 no.11:80-83 N '62. (MIRA 15:12)

1. Iz laboratorii eksperimental'noy patologii i terapii (zav. G.S.Kan) Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. A.D.Semenov)Predstavlena akademikom V.N.Chernigovskim.

(TUBERCULOSIS -- PREVENTIV INOCULATION) (LEUCOCYTES)

KAN, Ye.L.

Complement fixation reaction in BCG-vaccinated rabbits. Biul.eksp. biol.i med. 57 no.5:59-62 My 164. (MIRA 18:2)

1. Laboratoriya eksperimental'noy patologii i terapii (zav. G.S. Kan) Leningradskogo nauchno-issledovatel'skogo instituta tuber-kuleza (dir. - prof. A.D.Semenov). Submitted February 4, 1963.

成为了1974年,1975年,1

KAN, G.S.; KAN, Ye.L.

Effect of antituberculous vaccination on post-transfusion shock. Biul. eksp. biol. i med. 57 no.6:64-69 Je '64.

(MIRA 18:4)

l. Laboratoriya eksperimental'noy patologii i terapii (zav. - G.S. Kan) Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. - prof. A.D.Semenov).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

SOV/130-58~6-7/20

Full makht, V.V., Kan, Ye.M. and Chumichev, A.G., Engineers AUTHORS:

TITLE: The Largest Installation in the World for the Continuous

Casting of Steel (Samaya krupnaya v mire ustanovka

nepreryvnoy razlivki stali)

PERIODICAL: Metallurg, 1958, Nr 6, pp 15 - 17 (USSR)

ABSTRACT: The authors describe a four-machine continuous-casting installation designed jointly by the Giprostal' and the Tsentral'nyy nauchno issledovatel'skiy institut chernoy metallurgii (Central Research Institute for Ferrous Metallurgy). This installation is being built in the melting shop of the Stalino Metallurgical Works for casting four billets or slabs simultaneously of carbon and low-alloy steels from 140-ton ladles. Thickness and width ranges are 120-250 and 600-1200 mm, respectively and casting speed is 0.6-1.2 m/min. All units are in a 25-m dia. reinforced concrete-faced pit with its bottom 24 m below floor level; the pouring platform is 3 m above it. The platform has four 14-ton tundishes, two of which are in reserve. The tundishes can be quickly moved with the aid of rotary and lifting tables. The four moulds are of the independent-wall construction and each wall consists of an inner copper and an outer cast-iron plate with channels for cooling Cardl/3 water between them; the mould for a particular size of billet

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SOV/130-58-6-7/20 The Largest Installation in the World for the Continuous Casting of Steel

is assembled in a special holder. There is a special device for lubricating the inner walls when pouring starts. The casting is started with the aid of three-part primer, 13.8 m long, with a swallow-tail top which forms a bottom for the mould. The primer is lowered by the machine roller system and is split into its component parts and stored. Each directing roller-section, with a total length of 10.5 m, consists of an upper and a lower part, the rollers being 140 x 1 200 mm. The billet is spray-cooled as it passes down the section and then enters the drawing stand provided with hollow, water-cooler rollers. Under each drawing stand is a flame-cutting installation which cuts the billet into lengths of 4.2 - 5.2 m. cutting system descends at the casting speed and can be raised at 0.3 m/sec. The cut billets are raised by 16-ton lifts (one for each pair of machines) to the floor level. Instrumentation is provided on panels at the pouring and intermediate levels, television is available for remote observation and a loudspeaker system for intercommunication. A model of the installation is on exhibition at the Brussels fair. An annual saving of 9.4

Card 2/3

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SOV/130-58-6-7/20

The Largest Installation in the World for the Continuous Casting of Steel

million roubles is expected from the use of the continuous instead of ordinary methods of casting. There are two figures.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Research Institute for

Ferrous Metallurgy)

Card 3/3 1. Steel - Casting 2. Industrial plants - Equipment

SOV/133-58-11-6/25

AUTHORS: Boychenko, M.S., Candidate of Technical Sciences.

Gavrilov, O.T., Kan, Yu.B. and Kononov, B.Z., Engineers

TITLE: Semi-continuous Casting of Stainless Steel (Poluneprer-

ABSTRACT:

yvnaya razlivka nerzhaveyushchey stali)

PERIODICAL: Stal', 1958, Nr 11, pp 983 - 987 (USSR)

> Semi-continuous casting of steel lKhl8iv9T into slabs 175 x 300 mm for the production of cold-rolled sheets is described. Steel is smelted in a 20ton basic electric furnace and after casting eight 4-ton ingots the remaining steel is poured into an intermediate capacity preheated to 1 100 - 1 200 °C of the semi-continuous casting machine. From the intermediate capacity the metal is passed into a crystalliser (mould) through a 90° bend passage with a velocity of 1 100 - 1 200 mm/min and is cast into slabs 4 500 mm long, weighing 1 700 kg. The initially used and subsequently modified casting equip-

ment is shown in Figures 1 and 2, respectively. The main difficulty in obtaining quality sheets was the formation of skin on the surface of the metal in the crystalliser and its subsequent passage into the ingot. To prevent this, a wooden plank is placed on the level

of the metal of a somewhat smaller cross-section than Cardl/4

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SOV/133-58-11-6/25 Semi-continuous Casting of Stainless Steel

that of the slab. In the centre of the plank, an opening for the passage of the stream of metal is made. Such planks protect the surface of the metal from exidation, decrease heat losses and form a good lubrication of the walls of the crystalliser during casting, as they evolve volatiles condensing on the walls. The above considerably decreased the formation of skin. Cast slabs are weighed and cut into measured lengths using an aluminium-magnesium powder (the width of the cut 8-12 mm). From the head part about 250 mm (about 5.5% of the length) is cut off in order to remove shrinkage cavity (Figure 3). The surface of the slabs is planed to a depth of about 5 mm. The macrostructure of the cast slab is shown in Figure 4. Two main forms of nonmetallic inclusions were observed: a) titanium nitrides, situated in groups in the underskin layer, in the axial zone at a distance of 1/4 of the slab thickness (Figure 5a); b) very fine inclusions in the form of thin, broken chains which are probably carbo-nitrides (Figure 55). The microstructure of the metal was dendritic, more coarse in the middle than at the surface Card2/4 of the slab (Figure 6). Mechanical properties and

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Semi-continuous Casting of Stainless Steel Steel

resistance to inter-crystalline corrosion of cold-rolled sheets from ordinary and semi-continuously cast ingots was approximately the same and corresponded to requirements of TU 3126-52. The surface quality of the sheets from the above two kinds of ingots was the same. The process of crystallisation of semi-continuously cast slabs was investigated using radioactive phosphorus. Samples of radioactive phosphorus mixed with powdered iron and enclosed in a copper tube (about 100 mm long) were fixed to a steel rod which was introduced into the slab immediately after the end of casting (casting The results of the investigation velocity 1 000 mm/min). (shown in Figure 7) indicated that permissible linear velocity of casting is within a range of 1 100 - 1 200 mm/min. During the development of the practice, altogether 130 tons of the steel were cast in this manner with a coefficient of utilisation of metal of 1.96 instead of 2.11 when producing cold-rolled sheets from ingcts. There are 7 figures and 2 Soviet references.

Card3/4

SOV/133-58-11-6/25

Semil-continuous Casting of Stainless Steel

ASSOCIATIONS: TsNIIChM and Zavod "Krasnyy Oktyabr'"
("Krasnyy Oktyabr'" Works)

Card 4/4

udi dak soko ki dirakti kanes kon li inggi di ki diginakting kan dini duning saka di paka kondising kanang menda (ki ali si si si

8/133/60/000/009/011/015 A054/A029

Kan, Yu.Ye., Matevosyan, Ye. P., Kononov, B.Z. AUTHORS:

Comparing the Quality of 1X18H9T (1Kh18N9T) Ingots Produced by the

Semi-Continuous and by the Conventional Methods

PERIODICAL: Stal., 1960, No. 9, pp. 846-849

From the ingots produced according to the conventional methods in a basic arc furnace a longitudinal template was made, while from the ingots produced according to the "semi-continuous" method longitudinal and transverse templates were made in various arrangements. As to the macrostructure, no basic difference was found between the two kinds of specimens, in the "semi-continuous" specimens, however, an external approximately 7 mm thick case was observed; furthermore, the crystallites in these specimens had a somewhat smaller cross-smotion in the transcrystallization zone. The microstructural tests confirmed the assumption of several authors (Ref. 2) that the quantity of ox -phase decreases as the crystallization rate increases. In the border-zone of the "semi-continuous" ingots the inclusions of the of -phase are smaller and are more evenly distributed over the basic austenite structure than in the conventional ingots. Chemical ana-

Card 1/2

TITLE:

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18.3200

AUTHORS:

Rutes, V. S., Candidate of Technical Sciences; Katomin, B. N., Engineer; Kan, Yu. Ye., Engineer; Petrov, V. K., Engineer,

and Lobanov, V. V., Engineer

TITLE:

Adopting the process of the continuous casting of carbon steel at the Novo-Lipetsk metallurgicheskiy zavod (Novo-Lipetsk

Metallurgical Plant)

PERIODICAL: Stal', no. 4, 1961, 311 - 317

TEXT: Two units for continuous casting of carbon steel have been in operation in the Novo-Lipetsk Metallurgical Plant since 1959 and 1960, respectively. The units used for casting 150 x 620, 150 x 770 and 170 x 1020 mm slabs are arranged vertically (TsNIIChM-design), the pits are 16.5 m deep, while the 90-ton ladle is mounted 9 m above the workshop floor. Metal is poured into the crystallizer via a 5 - 7-ton intermittent ladle. The unit consists of two independent machines, each containing a crystallizer, secondary system, pulling stands, gas outters, discharge devices (Fig. 1). The intermittent ladle is provided with spouts, (28 - 30 mm in diameter).

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6"

Adopting the process of the continuous casting ...

22313 S/133/61/000/004/002/015 A054/A127

in accordance with the composition of the steel. The crystallizer consists of double-sheet walls, 1.5 m long, the inner sheet is made of chromiumbronze (5p Xp0.6 = BrKhr0.6), the outer of steel. Cooling water is supplied at a rate of 150 - 250 cu m/h to flow between the sheets. The crystallizer reciprocates vertically over 20 mm (downward) by means of a roller-system, synchronously with the slab, while its upward motion is 3-times faster than that of the slab. The inoculator (9 m long) has a special groove on its upper part (in the crystallizer), ensuring strong bond with the slab. The cooling device, 6.5 m long, is provided with frames, connected with 120-mm diameter rolls. The frames can be adjusted to the slab size. The cooling area is divided into 3 zones, the water flow can be independently controlled on each side and for each zone. Water consumption as a function of slab section-size and type of metal varies between 30 and 75 cu m/h. The slabs are removed from the crystallizer by pulling equipment consisting of four 300-mm diameter guiding beams, which are pressed to the slabs by means of a hydraulic system (40 - 60 atmospheres). Immediately after discharging the slabs are cut to pieces 6 - 8 m long, by 2 oxy-acetylene cutters with 3-m stroke. The equipment is completed with a roll-over machine and conveying

Card 2/4

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Adopting the process of the continuous casting... A054/A127

facilities. As this was the first continuous casting machine of such large size, literature gave no indications as to its operation. In the beginning 150 x 620 mm slabs were cast and in the first month not one out of 12 ladles could be poured completely, while in the second month out of 18 ladles 6 could be poured. Operation had to be interrupted mostly due to the troubles with the intermittent ladle, some other parts of the equipment and the deformation of slabs observed under the discharge device. This drawback could be eliminated by improving secondary cooling conditions. Also the faulty operation of the spouts, rupture of the plugs could be eliminated. A frequent cause of trouble was the tendency of the metal to break through under the crystallizer, mainly by the slag inclusions which are difficult to remove from the narrow side of slabs. The crystallizer operation was often affected by water-leakage through the sheets, due to their burning out. The greater the slabs, the simpler and easier the casting process. Since November 1959, 170 x 1020 mm slabs have been produced from killed carbon steel. The amount of faulty castings was reduced from 30.4% to 2.9% in 8 months. The temperature of the liquid metal in the 90-ton ladle was tested in the 15800 - 1640°C range. The optimum temperatures are 1600° - 1630°C. Below 1600°C there is the risk of the metal clogging the spouts of the inter-

Card 3/5

22313 S/133/61/000/004/002/015 A054/A127

Adopting the process of the continuous casting...

mittent ladle, whereas above 1630°C rupture of the metal under the crystallizer and longitudinal fractures on the broad sides of the slab can be expected. The optimum pouring speed for 150 x 620 mm (A) slabs was 0.85 -0.90 m/min, for 150 x 770 mm (B) slabs: 0.75 - 0.80 m/min and for 170 x 1020 mm (C) slabs: 0.50 - 0.60 m/min. The metal consumption - in the same sequence - was: A: 550 - 610 kg/min, B: 690 - 740 and C: 700 - 850 kg/min. When pouring under the lowest rate, the spouts of the intermittend ladle tend to get clogged and due to the longer pouring time, the operation of the ladle-stoppers was affected. An increase of the pouring rate above the maximum (0.90 m/min) may result in rupture of the metal under the crystallizer. For cooling water consumption (in the crystallizer) the following values were found (in cu m/h): slabs A: 150 - 200; slabs B: 195 - 210; slabs C: 225 -250. Water consumption for secondary cooling, (in cu m/h): slabs A: 31 -34, slabs B: 37.5 - 41, slabs C: 44 - 52. Heat dissipation, (106 cal/h): slabs A: 1.7; slabs B: 1.9; slabs C: 2.0. In the early operation of the equipment waste was considerable: in November 1959 26.4%. The main defects are longitudinal cracks, leaks, beads, slag inclusions, etc. Longitudinal surface cracks appeared frequently which could be prevented by pouring the

Card 4/55

S/133/61/000/004/002/015
Adopting the process of the continuous casting... A054/A127

metal into the crystallizer excentrically, at 250 mm from the thin wall of the crystallizer and by applying the optimum sulfur and carbon content of the metal. At a carbon content of 0.14% and a sulfur content below 0.029% no cracks formed; at 0.17% carbon content the allowed sulfur content is 0.020%. The other types of defects could be eliminated by improving the operation of the intermittent ladle, stoppers, etc. Bead formation was prevented by maintaining the required level of the metal in the crystallizer; by reducing the coating of the intermittent ladle and impreving the removal of slag the amount of slag inclusions were reduced. In March 1960, the rate of flawless 170 x 1020 mm slabs from killed carbon steel was as high as 94 - 96%, the maximum waste: 1.9%. The slabs were rolled into 2.5 - 3.0 mm and 10 - 25 mm sheets and it was found that sheets of cast slabs have the same plasticity and surface-quality as those made of rolled slabs. Mechanical properties, microstructure and macrostructure of the cast slabs meet the standard requirements. There are 4 figures and 2 tables.

ASSOCIATION: TsNIIChM and Novo-Lipetskiy metallurgicheskiy zarod (Novo-Lipetsk Metallurgical Plant)

Card 5/85

22373

z/034/60/000/08/002/030 E073/E335

AUTHOR:

Káňa, Engineer

TITLE:

Possibilities of Increasing the Rate of Production of Blooming Mills from the Point of View of the Mechanical

Equipment

PERIODICAL:

Hutnické listy, 1960, Nr 8, pp 596 - 597

ABSTRACT: This paper was presented at a Conference on Rolling, held on March 9-10, 1960, in Prague. By calculation and actual measurements at the NHKG Works it was proved that a considerably higher performance can be achieved with existing equipment than is being achieved For this purpose it is necessary to eliminate at present. the existing bottlenecks in the soaking pits and to increase the power of the driving motors. Whilst in the USSR and USA increasing use is being made of pulling ingot trolleys by ropes, this has so far not been applied in Czechoslovakia for fear of high rates of rope failure and the necessity of stretching the ropes due to the considerable length involved, which is about 270 m at NHKG. Various measures are recommended, namely, modifications in the design of the rolling stands (substituting AC drives of the rollers

Card1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620320011-6" Z/034/60/000/08/002/030 Possibilities of Increasing the Rate of Production of Blooming Mills from the Point of View of the Mechanical Equipment

by individual DC drives), the manipulators, the shears (including the removal of the waste material cut off by the shears), substitution of mesh filters used at present by lamella filters, as was done in the blooming mill of VZKG, which was supplied to Russia. Furthermore, bearings from synthetic materials should be substituted by antifriction bearings.

ASSOCIATION: Hutní projekt, Ostrava (Metallurgical-project Office, Ostrava)

Card 2/2

KANA, B.

Business accounting used by a complex group of workers in housing construction, p. 324, POZEMNI STAVBY, (Ministerstvo stavebnictvi) Fraha, Vol. 3, No. 8, Aug. 1955

SOURCE: East European Accessions List (EFAL) Library of Congress, Vol. 8, No. 12, December 1955

MEDRICKY, Z., ins.; KANA, J., inz.

Thermal conditions of coking-oven batteries. Paliva 41 no.1:14-19 Ja '61.

1. Nova hut Klementa Gottwalda, koksovna.

KANA, R.

KANA, R. Using continual building methods carried out by complex (cyclic) workers' unit in Slovakia. p. 258.

Vol. h, no. 7, July 1956 POZEMNÍ STAVEĽ TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

KANA, R.

Use of assembly-line method of building in Slovakia. p. 72. POZEMNI STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 3, no. 2, February 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 4, No. 12, December 1956.

Kana, R.

Kana, R. The manufacture and conveyance of mortar in constructing a housing development in Prievidza. p. 83.

Vol. 5, no. 2, Feb. 1957. POZEMNI STAVBY TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, No. 5, May 1957

KANA, T.

Electric power in industrial enterprises. p. 617.

TECHNICKA PRACA. (Rada vedeckych technickych spolocnosti pri Slovenskej akademii vied) Bratislava, Czechoslovakia. Vol. 11, no. 8, Aug. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.

KANA, Tomas, inz.

For saving of fuel and power in industries. Energetika Cz 11 no.11: 562 N '61.

(Fuel) (Power resources)